

THERAPEUTICALLY USEFUL SYNTHETIC OLIGONUCLEOTIDES

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ABSTRACT

The present invention provides a composition and method comprising a 2-
20 base 3'-OH, 5'-OH synthetic oligonucleotide (sequence) selected from the
group consisting of $(G_xT_y)_n$, $(T_yG_x)_n$, $a(G_xT_y)_n$, $a(T_yG_x)_n$, $(G_xT_y)_nb$, $(T_yG_x)_nb$,
10 $a(G_xT_y)_nb$, $a(T_yG_x)_nb$, wherein x and y is an integer between 1 and 7, n is an
integer between 1 and 12, a and b are one or more As, Cs, Gs or Ts and wherein
the sequence induces a response selected from the group consisting of induction of
cell cycle arrest, inhibition of proliferation, activation of caspases and induction of
apoptosis in cancer cells and production of cytokines by immune system cells.

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